Index of Claims

| Application/Control No | ٥. |
|------------------------|----|
|------------------------|----|

10/798,200

Examiner

Janis L. Dote

Applicant(s)/Patent under Reexamination

HIROSE ET AL.

Art Unit 1756

Rejected Allowed

(Through numeral)
Cancelled Restricted

Non-Elected N Interference

**Appeal** Α o Objected

|                 |   | _        |          |          |          |          | _  |              |  |          |
|-----------------|---|----------|----------|----------|----------|----------|--|--------------|--|----------|
| Cla             | aim   |          | Date     |          |          |          |  |              |  |          |
| Final           | Original                                      | 3/4/67   |          |          |          |          |  |              |  |          |
|                 | 2<br>3<br>4<br>5<br>8                         | V        |          |          | $\vdash$ | +        |  | $\vdash$     |  |          |
|                 | 2   |          |          |          |          |          |  |              |  |          |
|                 | 3   | Ш        |          |          |          |          |  |              |  |          |
|                 | 4   |          | _        |          | L        |          |  |              |  |          |
| <u></u>         | 5   | 1        | _        | Ŀ        | _        | _        |  | _            |  | Ш        |
|                 | 8   | L        | Ł        | L        | _        | ┺        | ļ  | _            | ╙  | Ш        |
|                 | _   | H        | _        | ↓        | -        | ╄        | 1  |              | $\perp$  | 1        |
|                 | 8   | -        | ⊢        | ⊢        | -        | ╀        | ╂  | ₩            | ┼  | $\vdash$ |
|                 | 40  | H        | -        | ├        | ╀        | ⊢        | ╀  | ╄            | ╂  | ╀┩       |
|                 | 41  | H        | <u> </u> | ⊢        | ╁        | ╁╌       | ╁  | ╁╌           | ╀  | H        |
| H               | <b>*</b>                                      | N        |          | ⊢        | ╁        | ╁        | +  | +            | ╁┈   | ╁─┤      |
| <u> </u>        | 13  | 1        | -        | ╁╌       | +        | ╁╴       | +  | -            | +  | Н        |
|                 | 14  | H        |          | 1        | +        | 1        | T  | ✝            | $t^-$  | $\vdash$ |
|                 | 9<br>10<br>(1)<br>(2)<br>13<br>14<br>15<br>16 | T        |          |          |          | T        | ✝  | t            | t  | H        |
|                 | 16  | П        |          | $\vdash$ | 1        | $\top$   | İ  | 1            |  | $\sqcap$ |
|                 | 16<br>17<br>18                                | T        |          |          |          |          |  | Т            |  | П        |
|                 | 18  |          |          |          |          |          |  |              |  |          |
|                 | 19  | 1        |          |          |          | L        |  |              | L  |          |
| <u> </u>        | 20<br>21                                      | Ŋ        |          |          | L        | 上        | _  | <u> </u>     |  | Ш        |
| L               | 21  | 0        |          | <u> </u> | <u> </u> | ــــ     | ╙  | L            | _  |          |
|                 | 22  | 9        | L        | L.       | <u> </u> | ┞        | $oldsymbol{oldsymbol{oldsymbol{eta}}}$           | 1_           |  | Н        |
|                 | 23<br>24                                      |          | _        | <u> </u> | ┡        | ├        | ╄  |              | ļ  |          |
|                 | 24  |          | _        | ⊢        | ├-       | ₩        | ╁  | <u> </u>     | <u> </u>   | Н        |
| <u> </u>        | 25<br>26                                      | -        | _        | ⊢        | ⊢        | ╁        | ┼─   | $\vdash$     | -  | Н        |
|                 | 27  |          | _        | -        | ╁        | -        | ⊢  | ├            | ╁  | Н        |
|                 | 28  | Н        |          | -        | ┢        | H        | ╁  | ╁╴           | ╁  | Н        |
|                 | 28<br>29<br>30                                |          |          | H        | $\vdash$ | T        | <del>                                     </del> |              | <del>                                     </del> | Н        |
|                 | 30  |          |          |          | <u> </u> | $\vdash$ | T  | $\vdash$     |  |          |
|                 | 31  |          |          |          |          |          |  |              |  | П        |
|                 | 32  |          |          |          |          |          |  |              |  |          |
|                 | 33  |          |          |          | Ĺ        | 匚        |  |              |  |          |
| <u> </u>        | 34  |          |          | L        |          | L        | _  | <u></u>      | _  | Ш        |
| <u> </u>        | 35  |          |          | <u> </u> | <u> </u> | <u> </u> | <del> </del> _                                   | <u> </u>     | $\vdash$   | Ш        |
|                 | 36  | Ш        |          | <u> </u> | <u> </u> | ⊢        | <u> </u>   | <del> </del> | ⊢  | Н        |
| $\vdash$        | 37  | -        |          | <u> </u> |          | ⊢        | <del> </del> —                                   | -            |  | Н        |
| $\vdash$        | 38<br>39                                      | -        | _        | -        | -        | -        | $\vdash$   | -            | -  | $\vdash$ |
| $\vdash \dashv$ | 40  |          |          | -        | $\vdash$ | -        | $\vdash$   | -            | $\vdash$   | Н        |
| $\vdash$        | 41  | -        |          | _        | ├        | $\vdash$ | 1  | $\vdash$     | $\vdash$   | Н        |
| H               | 42  | $\dashv$ | _        | _        | ┢        | $\vdash$ | -  | -            | -  | $\vdash$ |
|                 | 43  | -        |          | _        | $\vdash$ | $\vdash$ | $\vdash$   | ┢            | $\vdash$   | Н        |
|                 | 44  |          |          |          |          | Г        | T  |              |  | H        |
|                 | 45  |          |          |          |          |          |  |              |  | П        |
|                 | 46  |          |          |          |          |          |  |              |  |          |
|                 | 47  |          |          |          |          |          |  |              |  |          |
|                 | 48  |          |          |          |          |          |  |              |  |          |
|                 | 49  |          | $\Box$   |          |          | ·        |  |              | •  |          |
|                 | 50  | [        | Ī        |          |          |          |  |              |  |          |

| CI            | aim      | Date     |          |          |          |              |              |  |                |                |  |
|---------------|----------|----------|----------|----------|----------|--------------|--------------|--|----------------|----------------|--|
| Final         | Original |          |          |          |          |              |              |  |                | 8              |  |
| -             | 51       | ┢        | -        | ╁╌       | ╁        | ┿            | ╁            | ╁  | ╁              | ╁╌             |  |
| $\vdash$      | 52       | -        | -        | ╁        | ╀        | +            | ╁            | ╁  | ╁              | ╁              |  |
| -             | 52<br>53 | $\vdash$ |          | ╁        | ╁        | ╁            | ╁            | ╁  | ╁╾             | ╁              |  |
|               | 53       | -        | ⊢        | ⊢        | ╁╌       | ╁            | ╁            | ╁  | ╁              | -              |  |
| -             | 54<br>55 | ╁        | $\vdash$ | ╁        | ╁        | ╁            | ╁            | ╁  | ┼              | ┢              |  |
| -             | 56       | ⊢        | ┝        | ╁╴       | ╁        | +-           | ╁            | ╁  | ╁              | ╁              |  |
| <u> </u>      | 57       | ├-       | ┝        | ╁        | ╁╾       | ╁            | ┼-           | ╀  | ╀              | $\vdash$       |  |
| -             | 58       | ╁        | ⊢        | ╫┈       | ╁        | ╁╌           | ╁            | ⊢  | ╁              | ┢              |  |
|               | 59       | -        | ┝        | ╁╌       | ╁        | +            | ╁            | ╁  | ╁              | ├              |  |
| -             | 60       | ╁        | ⊢        | ╁        | ╁        | +            | ╁            | ╁  | ╁              | ⊢              |  |
| -             | 61       | ├        | ├─       | ┢        | ╁        | +            | ╁            | ╁-   | ╌              | ╁              |  |
| -             | 62       | -        | ⊢        | ╁        | ╁╌       | +-           | +            | ⊢  | ╁              | $\vdash$       |  |
| -             | 63       | $\vdash$ | ┝        | ╁        | ╁╌       | $\vdash$     | ╁            | $\vdash$   | $\vdash$       | ├-             |  |
| -             | 64       | ╁╾       | $\vdash$ | ╁        | ╁        | +            | ╁            | $\vdash$   | ╌              | ⊢              |  |
| <del> </del>  | 65       | $\vdash$ | $\vdash$ | ╁        | ╁        | +            | $\vdash$     | ┾╌   | ╁              | ⊢              |  |
| $\vdash$      | 66       | $\vdash$ |          | $\vdash$ | ╁        | ╁            | $\vdash$     | ╁  | $\vdash$       | ⊢              |  |
| -             | 67       | ┢        |          | ╁╾       | ╀        | ╁╌           | +-           | $\vdash$   | ╁              | ├              |  |
| ·             | 68       | -        | -        | ┼        | ╁        | ⊬            | ╂            | ⊢  | ╁              | ╁              |  |
| -             | 69       | -        | -        | ╁        | ╁        | +-           | ⊢            | $\vdash$   | ⊢              | ┝              |  |
| -             | 70       | -        | _        | ⊢        | ╁╾       | ╁            | ╁            | ├-   | ┢              | ┢              |  |
| -             | 71       | -        |          | ┝        | ⊢        | ╁            | ⊢            | ┝  | ╁              | ┝              |  |
| -             | 72       | -        |          |          | ╁        | ╁            | ╁            | ├—   | ⊢              | H              |  |
|               | 72       | Н        |          |          | ┢        | ⊢            | ⊢            | ⊢  | ├              |                |  |
|               | 73<br>74 | Н        |          | ┢        |          | -            | -            | ⊢  | -              | <del>  -</del> |  |
| -             | 75       |          |          | ⊢        | -        | ┢            | ⊬            | <del>                                     </del> | ├              | ╌              |  |
| <u> </u>      | 76       | Н        | _        | ├        | ⊢        | ╁            | ┢            | ├  | ⊢              | ⊢              |  |
|               | 76<br>77 | H        |          | ┢        | ┢        | ╁            | ┢            | ├  | ├              | -              |  |
|               | 78       | Н        | -        | ⊢        | ┢╌       | ⊢            | ├-           | ⊢  | ├              | <del> </del>   |  |
|               | 79       | -        |          | ├-       | ┢        | <del> </del> | ⊢            | ⊢  | -              | ⊢              |  |
| -             | 80       | -        |          | ⊢        | ╁        | -            | ⊢            | ├-   | _              | $\vdash$       |  |
| -             | 81       | $\vdash$ |          | $\vdash$ | ┨        | ┢            | $\vdash$     | ┝┈   | -              | -              |  |
|               | 81<br>82 | Н        | _        | -        | ⊢        | -            | ┝            | $\vdash$   |                | H              |  |
| -             | 83       | Н        |          | ├        | ├        | -            | $\vdash$     | ⊢  | ⊢              | <del>-</del>   |  |
|               | 84       | $\vdash$ |          | ⊢        | -        | ┝            | ⊢            | ⊨  | <del>  -</del> | -              |  |
| _             | 85       | Н        | _        | ⊢        | ├        | ├            | ⊢            | ⊢  | -              | -              |  |
| <del></del>   | 86       |          |          |          | $\vdash$ | ├─           | ⊢            | -  | ⊢              | ├              |  |
| <u> </u>      | 87       | $\vdash$ |          | -        |          | ├            | ⊢            | ┝  | H              |                |  |
| -             | 88       | -        |          |          | -        | ├            |              | $\vdash$   | -              | ┝              |  |
| <del></del>   | 89       | $\vdash$ |          | $\vdash$ | ├        | ⊢            | ├            |  | -              | ┝              |  |
| -             | 90       | $\vdash$ | _        | ⊢        | $\vdash$ | -            | ┝            |  |                | <del> </del>   |  |
| -             | 91       | -        |          | -        | ┢        | H            | -            | $\vdash$   | -              | -              |  |
| <del> </del>  | 92       |          |          | -        | ⊢        | <del> </del> | <del> </del> | $\vdash$   | -              | _              |  |
| -             | 93       | $\vdash$ | _        | -        | ┝        | <del> </del> |              | -  | $\vdash$       |                |  |
|               | 94       | $\dashv$ | -        | $\vdash$ | $\vdash$ | -            | Н            | $\vdash$   | $\vdash$       | _              |  |
| $\vdash$      | 95       | -        |          | -        | $\vdash$ | -            | $\vdash$     | $\vdash$   | -              | _              |  |
| -             | 96       |          | -        | -        | -        | $\vdash$     | -            | -  | Н              |                |  |
| $\vdash$      | 97       |          | $\dashv$ |          | $\vdash$ | $\vdash$     | -            | $\vdash$   |                | _              |  |
| <del>  </del> | 98       |          | $\dashv$ | _        | -        | $\vdash$     | -            |  | -              | $\dashv$       |  |
| $\vdash$      | 99       | $\dashv$ | $\dashv$ |          | Η-       | $\vdash$     | H            | $\vdash$   |                |                |  |
|               | 100      | -        | $\dashv$ | _        | -        | -            | $\vdash$     | Н  | $\vdash$       | _              |  |
|               | ,00      |          |          |          |          |              |              |  | L              |                |  |

| CI   | aim   |              |          |   |          | Dat          | e  |  |              |          |
|--|---|--------------|----------|---|----------|--------------|--|--|--------------|----------|
| Final  | Original                                      |              |          |   |          |              |  |  |              |          |
| <u> </u>   |   | L            | L        | _   | L        | _            | L  | <u> </u>   | L            |          |
|  | 101<br>102<br>103<br>104                      | ⊢            | ļ        | 1   | _        | ┡            | ↓_   | _  | ┡            | Ш        |
| <u> </u>   | 102   | ⊢            | ⊢        | ╄   | ├        | ⊢            | ┢  | ⊢  | ├            | Н        |
|  | 103   | <del> </del> | $\vdash$ | 1-  | ╁        | -            | ╁╌   | ╁  | ⊢            | Н        |
| <del> </del>                                     | 105   |              | ╁        | H   | ╁        | $\vdash$     | $\vdash$   | +-   | ┢            | Н        |
| <del>                                     </del> | 105<br>106                                    |              | $\vdash$ | 1-  | $\vdash$ | $\vdash$     | ╁  | t  |              | Н        |
|  | 107   |              | $\vdash$ | T   |          | Ī            |  | 1  | İΤ           | П        |
|  | 108<br>109                                    |              | L        |   |          |              |  |  |              |          |
|  | 109   | L            |          | L   |          |              | L  | <u> </u>   | L.           |          |
|  | 110   | _            | ļ.,      | ╙   | _        | <u> </u>     | <u> </u>   | ┞-   | L_           | Щ        |
|  | 111<br>112<br>113<br>114<br>115<br>116<br>117 | _            | ┝        |   | ┞        | ⊢            | ├  | ┡  |              | Н        |
|  | 112   | $\vdash$     | -        | ┝   | ├-       | -            | ├  | ├-   | <del> </del> | $\vdash$ |
| _  | 114   | ⊢            | -        | ╁   | ⊢        | ╫┈           | ╁  | ├  | ├            | H        |
|  | 115   | $\vdash$     | ╁╌       | $\vdash$  | ┢        | $\vdash$     | 一  | $\vdash$   | H            | Н        |
|  | 116   |              | $\vdash$ |   | $\vdash$ |              | ╁  | <del>                                     </del> | $\vdash$     | Н        |
|  | 117   |              |          |   |          |              | <del>                                     </del> | $\vdash$   | 1            | Н        |
|  | 118   |              |          |   | İ        | İ            |  | Г  |              |          |
|  | 119<br>120<br>121                             |              |          |   |          |              |  |  |              |          |
|  | 120   |              |          |   |          | 乚            |  |  |              |          |
|  | 121   | <u> </u>     | <u> </u> | <u> </u>  | _        | _            | <u> </u>   | _  | _            | Ш        |
|  | 122   |              | <u> </u> | ├_  | <u> </u> | <del> </del> | ⊢  | ⊢  | _            | Ш        |
|  | 122<br>123<br>124<br>125                      | $\vdash$     | -        | ⊢   | -        | ├—           | -  | ┝  | _            | Н        |
|  | 125   | ⊢            | $\vdash$ | -   | ┝        | ⊢            | -  | -  | $\vdash$     | Н        |
|  | 126   | -            | $\vdash$ | $\vdash$  | $\vdash$ | -            |  | H  | -            | H        |
|  | 127<br>128<br>129                             | $\vdash$     |          |   | <u> </u> | Т            |  | $\vdash$   |              | Н        |
|  | 128   |              |          | -   | _        |              |  | T  |              | П        |
|  | 129   |              |          |   |          |              |  |  |              |          |
|  | 130<br>131                                    |              |          | $ldsymbol{ley}}}}}}}$ | L        |              |  |  |              |          |
|  | 131   |              |          | <u> </u>  | <u> </u> | _            | _  | _  |              | Ш        |
|  | 132<br>133                                    | _            | <u> </u> | <u> </u>  | _        | _            | <u> </u>   |  | L            | Ш        |
|  | 133   |              | -        | <del> </del>  | <u> </u> | ⊢            | <b>!</b>   | ⊢  | Ш            |          |
|  | 135   |              | -        | $\vdash$  | -        | -            | $\vdash$   | -  | $\vdash$     | $\vdash$ |
|  | 135<br>136                                    |              | $\vdash$ | -   | -        | -            | $\vdash$   |  | Н            | $\dashv$ |
|  | 137   |              |          |   | -        | $\vdash$     |  |  |              | $\dashv$ |
|  | 138<br>139                                    |              |          |   |          |              |  |  | $\Box$       | $\Box$   |
|  | 139   |              |          |   |          |              |  |  |              |          |
|  | 140   |              |          | L   |          |              |  |  |              |          |
|  | 141   |              |          |   |          |              |  | Щ  |              | Ш        |
|  | 142   | _            | _        |   |          | _            | _  | Н  |              | $\dashv$ |
|  | 143<br>144                                    |              | $\vdash$ | $\vdash$  | _        | _            |  | $\vdash$   | _            | $\dashv$ |
| -  | 144   |              | $\vdash$ | Н   | _        | $\vdash$     | -  | $\vdash$   |              | $\dashv$ |
|  | 146   | _            | -        | $\vdash$  |          |              |  | $\vdash$   |              | $\dashv$ |
|  | 147   |              |          | $\dashv$  |          | Н            | $\exists$  | $\dashv$   | $\dashv$     | $\dashv$ |
|  | 148   | $\dashv$     |          | Н   |          | Н            |  | $\vdash$   | $\dashv$     | $\dashv$ |
|  | 149   |              |          |   |          |              |  |  |              |          |
| -1   | 150   |              |          |   |          |              |  |  |              |          |
|  |   |              |          |   |          |              |  |  |              |          |